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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,271	03/12/2004	Kyung-geun Lee	1293.1740	5858
	7590 05/29/200 'EN & BUI, LLP	8	EXAM	INER
1400 EYE STREET, NW			DANG, HUNG Q	
SUITE 300 WASHINGTO	ASHINGTON, DC 20005		ART UNIT	PAPER NUMBER
			2621	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/798,271	LEE ET AL.	
Office Action Summary	Examiner	Art Unit	
	HUNG Q. DANG	2621	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	:
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communion BANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>01</u> This action is FINAL . 2b) ☐ To allow closed in accordance with the practice under the practice under the practice.	his action is non-final. wance except for formal mat		its is
Disposition of Claims			
4) ☐ Claim(s) 1-10 and 12-20 is/are pending in the 4a) Of the above claim(s) is/are with description of the above claim(s) is/are with description of the above claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 and 12-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers 9) ☐ The specification is objected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s) are subjected to by the Examination of the above claim(s)	lrawn from consideration.		
10) ☐ The drawing(s) filed on 12 March 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt of the oath or declaration is objected to by the	e: a)⊠ accepted or b)⊡ ob he drawing(s) be held in abeyal rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.1	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreing a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a limit of the priority. 	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No received in this National Stage	e
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 05/03/2004, 10/15/2004, 05/31/2006,	Paper No(5) Notice of I	Summary (PTO-413) s)/Mail Date nformal Patent Application 	



Application No.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/01/2008 has been entered.

Response to Arguments

Applicant's arguments filed on 04/01/2008 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 7-8, 10-16, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al. (US Patent 6,072,759) and Takeshita (US Patent 6,556,524).

Regarding claim 1, Maeda et al. disclose an information storage medium for use with a recording and/or reproducing apparatus, the information storage medium (column 5, lines 21-30) comprising: a recordable area to record data information (Figs. 5; column

5, lines 31); and a reproduction-only area to store a standard version information indicating at least one factor associated with data recording and/or reproduction prescribed by a manufacturer, and a revision information different from the standard version information indicating an update to the at least one factor and also prescribed by the manufacturer (column 8, line 34 – column 9, line 67); wherein, when the standard version information and the revision information are read by the recording and/or reproducing apparatus, the standard version information and the revision information cause the recording and/or reproducing apparatus to read data from, or write data to, the information storage medium according to a standard corresponding to the standard version information and the revision information (column 8, line 34 – column 9, line 67).

However, Maeda et al. do not disclose the at least one factor comprises a maximum recording speed.

Takeshita discloses a factor that comprises a maximum recording speed used to control recording of data into the storage medium (column 3, lines 7-18; Fig. 5).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the factor of a maximum recording speed disclosed by Takeshita into the information storage medium disclosed by Maeda et al. for determining an optimum recording condition for the storage medium (see Takeshita, column 6, lines 20-23).

Regarding claim 2, Maeda et al. also disclose a lead-in area (column 8, line 34 – column 9, line 67; Fig. 5A; Fig. 5B; Fig. 5C); a user data area (Fig. 5A; Fig. 5B; Fig. 5C); and a lead-out area (Fig. 5A; Fig. 5B; Fig. 5C), wherein the reproduction-only area is

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included in at least one of the lead-in and lead-out areas, and the recordable area is recorded in a remaining portion of the lead-in area, the user data area, and the lead-out area (column 8, line 34 – column 9, line 67; column 10, lines 3-10; column 18, lines 49-53; column 6, lines 3-6, 32-38).

Regarding claim 3, Maeda et al. also disclose the reproduction-only area is a disk control data zone included in at least one of the lead-in and lead-out areas (column 8, line 34 – column 9, line 67).

Regarding claim 4, Maeda et al. also disclose the revision information is recorded in an m-th byte of the disk control data zone (column 8, line 34 – column 9, line 67).

Regarding claim 5, Maeda et al. also disclose each time the revision information is changed, the changed revision information is recorded in the m-th byte (column 9, lines 35-39).

Regarding claim 7, Maeda et al. also disclose when the revision information is x.y, x is recorded in a first four bits of the m-th byte., and y is recorded in a last four bits of the m-th byte (column 9, lines 22-31).

Regarding claim 8, Maeda et al. also disclose one of a hexadecimal system and a binary system is used to record the revision information (column 9, lines 22-39).

Regarding claim 10, Maeda et al. also disclose when content of at least one of the factor changes, the revision information corresponding to the changed factor is recorded (column 9, lines 35-39).

Regarding claim 12, Maeda et al. disclose a method of recording and/or reproducing data in an information storage medium (column 2, lines 50-54) which

includes a lead-in area (column 8, line 34 – column 9, line 67; Fig. 5A; Fig. 5B; Fig. 5C), a user data area (Fig. 5A; Fig. 5B; Fig. 5C), and a lead-out area (Fig. 5A; Fig. 5B; Fig. 5C), the method comprising: recording a standard version information indicating at least one factor associated with data recording and/or reproduction prescribed by a manufacturer in a reproduction-only area of at least one of the lead-in and lead-out areas (column 8, line 34 – column 9, line 67; Fig. 5A; Fig. 5B; Fig. 5C); recording revision information indicating an update to the at least one factor and also prescribed by the manufacturer in the reproduction-only area (column 9, lines 35-39; also see "Response to Arguments" above); and reading the standard version information and the revision information and recording and/or reproducing data according to a standard associated with the standard version information and the revision information (column 2, lines 50 – column 3, line 7; column 8, line 34 – column 9, line 67).

However, Maeda et al. do not disclose the at least one factor comprises a maximum recording speed.

Takeshita discloses a factor that comprises a maximum recording speed used to control recording of data into the storage medium (column 3, lines 7-18; Fig. 5).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the factor of a maximum recording speed disclosed by Takeshita into the recording and/or reproducing method disclosed by Maeda et al. for determining an optimum recording condition for the storage medium (see Takeshita, column 6, lines 20-23).

Regarding claim 13, Maeda et al. also disclose a drive performs the reading (Fig. 22; Fig. 23A; Fig. 37A).

Claim 14 is rejected for the same reason as discussed in claim 3 above.

Claim 15 is rejected for the same reason as discussed in claim 4 above.

Claim 16 is rejected for the same reason as discussed in claim 5 above.

Claim 18 is rejected for the same reason as discussed in claim 7 above.

Regarding claim 20, Maeda et al. disclose a drive system (Fig. 22; Fig. 23A; Fig. 37A) for recording and/or reproducing data on an information storage medium (column 2, lines 50-54) comprising a reproduction-only area to record a standard version information indicating at least one factor associated with data recording and/or reproduction prescribed by a manufacturer and a revision information different from the standard version information indicating an update to the at least one factor and also prescribed by the manufacturer (column 8, line 34 – column 9, line 67; Fig. 5A; Fig. 5B; Fig. 5C; also see "Response to Arguments" above), comprising: a pickup which records and/or reproduces the data from the information storage medium (Fig. 22; Fig. 23A; Fig. 37A; column 19, lines 47-55), wherein, when the information storage medium is inserted into the drive system (column 19, lines 39-45), the drive system reads out the version information and the revision information and records and/or reproduces the data according to a standard corresponding to the version information and the revision information (column 2, line 50 – column 3, line 7; column 8, line 34 – column 9, line 67; column 20, lines 56-60; column 22, lines 7-40).

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However, Maeda et al. do not disclose the at least one factor comprises a maximum recording speed.

Takeshita discloses a factor that comprises a maximum recording speed used to control recording of data into the storage medium (column 3, lines 7-18; Fig. 5).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the factor of a maximum recording speed disclosed by Takeshita into the drive system disclosed by Maeda et al. for determining an optimum recording condition for the storage medium (see Takeshita, column 6, lines 20-23).

Claims 6 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al. (US Patent 6,072,759) and Takeshita (US Patent 6,556,524) as applied to claims 1-5, 7-8, 10-16, 18 and 20 above, and further in view of Ohno et al. (US Patent 6,628,602).

Regarding claim 6, see the teachings of Maeda et al. and Takeshita as discussed in claim 2 above. However, the proposed combination of Maeda et al. and Takeshita does not disclose the revision information is repeatedly recorded in the lead-out area.

Ohno et al. disclose the recording information recorded in the lead-in area is repeatedly recorded in the lead-out area (column 1, lines 58-64).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the repeating in the lead-out area of recording information recorded in the lead-in area disclosed by Ohno et al. into the information storage medium disclosed by Maeda et al. and Takeshita for backup reason. The

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incorporated feature would make the information accessible even when one of the leadin and lead-out areas becomes unreadable.

Claim 17 is rejected for the same reason as discussed in claim 6 above.

Claims 9 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al. (US Patent 6,072,759) and Takeshita (US Patent 6,556,524) as applied to claims 1-5, 7-8, 10-16, 18 and 20 above, and further in view of Kondo (US Patent 6,600,716).

Regarding claim 9, see the teachings of Maeda et al. and Takeshita as discussed in claim 1 above. Further, Maeda et al. also disclose the revision information is recorded in one byte of the reproduction-only area (column 9, lines 27-39). However, the proposed combination of Maeda et al. and Takeshita does not disclose the revision information is repeatedly recorded in at least two of the bytes in the reproduction-only area.

Kondo discloses the recording information recorded in the lead-in area is repeatedly recorded in the lead-in area (column 13, lines 50-54).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the repeating in the lead-in area of recording information recorded in the lead-in area disclosed by Kondo into the information storage medium disclosed by Maeda et al. and Takeshita for backup reason. The incorporated feature would make the information accessible even when the lead-in area becomes unreadable.

Claim 19 is rejected for the same reason as discussed in claim 9 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG Q. DANG whose telephone number is (571)270-1116. The examiner can normally be reached on M-Th:7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hung Q Dang/ Examiner, Art Unit 2621

/Thai Tran/ Supervisory Patent Examiner, Art Unit 2621